Customer No. 00027683 Atty. Dkt. No. 36689,259

## 1. AMENDMENTS TO THE CLAIMS (LISTING OF CLAIMS):

DO NOT ENTER: /C.H./

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Currently Amended) An isolated polynucleotide comprising:
  - (a) an isolated-HSV LAT enhancer element that consists essentially of a contiguous nucleotide sequence from about nucleotide 118,975 to about nucleotide 120,471 of SEQ ID NO:109, SEQ ID NO:110, or SEQ ID NO:111;
  - (b) a first isolated LAT insulator/boundary region that consists essentially of a contiguous nucleotide sequence from about nucleotide 8365 to about nucleotide 9273 of SEQ ID NO:109, SEQ ID NO:110, or SEQ ID NO:111, operably positioned upstream of saidthe isolated LAT enhancer element; and
    - (c) a second isolated LAT insulatory/boundary region that consists essentially of a contiguous nucleotide sequence from about nucleotide 120,208 to about nucleotide 120,940 of SEQ ID NO:109, SEQ ID NO:110, or SEQ ID NO:111, operably positioned downstream of saidthe isolated LAT enhancer element.

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## 2-8. (Canceled)

- 9. (Currently Amended) The isolated polynucleotide of claim 1, further comprising: (d) at least a first promoter region operably positioned upstream of saidthe LAT enhancer element, and downstream of saidthe first LAT insulator/boundary region.
- 10. (Currently Amended) The isolated polynucleotide of claim 9, wherein saidthe promoter region comprises an HSV LAP1 promoter.

## 11-13.(Canceled)

- 14. (Currently Amended) The isolated polynucleotide of claim [[13]]9, wherein saidthe first promoter region comprises an HSV LAP1 promoter that consists essentially of a sequence region of from about nucleotide 117,938 to about 118,843 of said HSV LAP1 promoterany one of SEQ ID NO:109, SEQ ID NO:110, and SEQ ID NO:111.
- 15. (Currently Amended) The isolated polynucleotide of claim 14, wherein saidthe first promoter region comprises an HSV LAP1 promoter that consists of a sequence region of from about nucleotide 117,938 to about 118,843 of said HSV LAP1 promoterany one of SEQ ID NO:109, SEQ ID NO:110, and SEQ ID NO:111.

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16-26.(Canceled)

(Currently Amended) The isolated polynucleotide of claim 1, further comprising at least a 27.

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first multiple cloning region operably positioned downstream of saidthe first LAT

insulator/boundary region and upstream of saidthe LAT enhancer element.

(Currently Amended) The isolated polynucleotide of claim 27, wherein saidthe first multiple 28.

cloning region further comprises a nucleic acid sequence that encodes a promoter or an

enhancer sequence that is expressed in a mammalian host cell.

(Currently Amended) The isolated polynucleotide of claim 27, further comprising at least a 29.

second multiple cloning region operably positioned upstream of saidthe second LAT

insulator/boundary region and downstream of saidthe LAT enhancer element.

(Currently Amended) The isolated polynucleotide of claim 29, wherein saidthe second 30.

multiple cloning region further comprises at least a first nucleic acid sequence that encodes a

therapeutic agent.

(Currently Amended) The isolated polynucleotide of claim 30, wherein saidthe second 31.

multiple cloning region further comprises a nucleic acid sequence that encodes at least a first

therapeutic agent selected from the group consisting of a peptide, a polypeptide, a ribozyme,

a catalytic RNA molecule, an antisense oligonucleotide, and an antisense polynucleotide.

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## 32-45. (Canceled)

- 46. (Previously Presented) A viral vector, virion, or plurality of viral particles that comprises the isolated polynucleotide of claim 1 or claim 73.
- 47. (Currently Amended) The viral vector, virion, or plurality of viral particles of claim 46, wherein saidthe vector, virion, or plurality of viral particles is of retroviral, adenoviral, adeno-associated viral, or-a-herpes viral origin.
- 48. (Previously Presented) The viral vector, virion, or plurality of viral particles of claim 47, comprising a gutless HSV vector, a gutless AV vector, a gutless AAV vector, a recombinant HSV vector, a recombinant AV vector, or a recombinant AAV vector.

49-50.(Canceled)

- 51. (Currently Amended) An isolated mammalian host cell that comprises:
  - (a) the isolated polynucleotide of claim 1 or claim 73; or
  - (b) thea viral vector, virion, or plurality of viral particles that comprises the isolated polynucleotide of claim 461 or claim 73.

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52-53. (Canceled)

- 54. (Currently Amended) A pharmaceutical composition comprising:
  - (a) the isolated polynucleotide of claim 1 or claim 73[[,]]; or
  - (b) thea viral vector, virion, or plurality of viral particles that comprises the isolated polynucleotide of claim 1 or claim 73 of claim 46.

55-71. (Canceled)

- 72. (Currently Amended) A recombinant viral vector comprising anthe isolated polynucleotide that comprises:
  - (a) an isolated HSV LAT enhancer element, that comprises a contiguous nucleotide-sequence from about nucleotide 118,975 to about nucleotide 120,471 of an HSV LAT 5;
  - (b) a first isolated LAT insulator/boundary region, that comprises a contiguous nucleotide sequence from about nucleotide 8365 to about nucleotide 9273 of HSV1, operably positioned upstream of said isolated LAT enhancer element; and
  - (e) a second isolated LAT insulatory/boundary region, that comprises a contiguous nucleotide sequence from about nucleotide 120,208 to about

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nucleotide 120,940 of HSV1, operably positioned downstream of said isolated LAT enhancer element of claim 1.

- 73. (Currently Amended) An isolated polynucleotide that comprises:
  - (a) an isolated HSV LAT enhancer element, consisting essentially of a contiguous nucleotide sequence from about nucleotide 118,975 to about nucleotide 120,471 of an HSV LAT 5 exonany one of SEQ ID NO:109, SEQ ID NO:110, and SEQ ID NO:111;
  - (b) a first isolated LAT insulator/boundary region, consisting essentially of a contiguous nucleotide sequence from about nucleotide 8365 to about nucleotide 9273 of HSV1 any one of SEQ ID NO:109, SEQ ID NO:110, and SEQ ID NO:111, operably positioned upstream of saidthe isolated LAT enhancer element; and
    - (c) a second isolated LAT insulatory/boundary region, consisting essentially of a contiguous nucleotide sequence from about nucleotide 120,208 to about nucleotide 120,940 of HSV1 any one of SEQ ID NO:109, SEQ ID NO:110, and SEQ ID NO:111, operably positioned downstream of saidthe isolated LAT enhancer element.

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- 74. (Currently Amended) The isolated polynucleotide of claim 73, further comprising a first promoter region operably positioned upstream of saidthe LAT enhancer element, and downstream of saidthe first LAT insulator/boundary region.
- 75. (Currently Amended) The isolated polynucleotide of claim 74, wherein saidthe first promoter region consists essentially of a sequence region of from about nucleotide 117,938 to about 118,843 of an HSV LAP1 promoterany one of SEQ ID NO:109, SEQ ID NO:110, and SEQ ID NO:111.